

BEFORE USING THIS PRODUCT READ THE LABEL CAREFULLY!

Herbicide



TRIFLURALIN 480 EC

Reg. No. L 4555 Act/Wet No. 36 of/van 1947

6: 29/6/2012–Jan2017

A selective emulsifiable concentrate herbicide for pre-plant soil incorporation for the control of annual grasses and some broadleaf weeds in crops as indicated.

'n Selektiewe emulgeerbare konsentraat onkruidoder vir voorplant grondinwerking vir die beheer van eenjarige grasse en sommige breëblaaronkruid in gewasse soos aangedui.

ACTIVE INGREDIENT / AKTIEWE BESTANDEEL

trifluralin (dinitroaniline) **480 g/L** trifluralin (dinitroanilien)

HRAC HERBICIDE GROUP CODE **K1** HRAC ONKRUIDODER GROEPKODE



villa

Registration holder / Registrasiehouer:

Universal Crop Protection (Pty) Ltd.

Co. Reg. No. / Mpy. Reg. Nr. 1983/008184/07

PO Box / Posbus 801, Kempton Park, 1620

Tel: 011 396 2233

Website / Webblad: www.villacrop.co.za

UN Number: 1993

Willow Set & Print 011 394-4486

GEBRUIKSAANWYSYNGS INGESLUIT

VERWYS NA BESONDERHEDE
GEDRUK OP HOUER/SAK

Date formulated:
Formuleringsdatum:

DIRECTIONS FOR USE ENCLOSED
REFER TO DETAILS PRINTED
ON CONTAINER/BAG

Batch number:
Lotnommer:



CAUTION
VERSIGTIG



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trifluralin (dinitro aniline) / trifluralin (dinitroanilien).....480 g/l

Registration holder / Registrasiehouer:

UNIVERSAL CROP PROTECTION (PTY) LTD.

Co. Reg. No. 1983/008184/07 Mpy. Reg. Nr.

P.O. Box / Posbus 801

KEMPTON PARK, 1620 Tel. (011) 396 2233

CAUTION / VERSIGTIG**WARNINGS**

- Poisonous if swallowed.
- Toxic to fish.
- **Flammable** - keep away from heat and flames.
- Store in a cool place, away from food, feeds, seed, fertilizers and other agricultural remedies.
- Do not allow the product to freeze.
- Keep out of reach of children, uninformed persons and animals.
- Re-entry: Do not enter treated area until spray deposit has dried unless wearing protective clothing.

Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not warrant that it will be efficacious under all conditions, because the action and effect thereof may be affected by factors such as abnormal soil, climatic and storage conditions, quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of the weeds to the remedy concerned, as well as by the method, time and accuracy of application. The registration holder further does not accept responsibility for damage to crops, vegetation, the environment or harm to man or animal or for lack of performance of the remedy concerned, due to failure of the user to follow the label instructions or to the occurrence of conditions, which could not have been foreseen in terms of the registration. Consult the supplier in event of any uncertainty.

PRECAUTIONS

- Avoid inhalation of the spray mist.
- Wear a face shield and rubber gloves when handling the concentrate and during mixing.
- Wash with soap and water after use or accidental skin contact.
- Wash contaminated clothes daily after use.
- Do not eat, drink or smoke whilst mixing or applying or before washing hands and face and change of clothing.
- Prevent spray drift onto other crops, grazing, rivers, dams or areas not under treatment.
- Clean the applicator thoroughly after use and dispose of wash water where it will not contaminate food, grazing, boreholes, rivers or dams.
- **TRIPLE RINSE** empty containers in the following manner: Invert the empty container over the spray or mixing tank and allow draining for at least 30 seconds after the flow has slowed down to a drip. Thereafter rinse the container three times with a volume of water equal to a minimum of a third of that of the container. Add the rinsing to the contents of the spray tank before destroying the container in the prescribed manner.
- Destroy the container by perforation and flattening and dispose of it in a safe way.
- **Do not** re-use the empty container for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.

RESISTANCE WARNING

TRIFLURALIN 480 EC is a group code K1 herbicide. Any weed population may contain individuals naturally resistant to **TRIFLURALIN 480 EC** and other group code K1 herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. **TRIFLURALIN 480 EC** or any other group code K1 herbicide may not control these resistant weeds.

To delay herbicide resistance:

- avoid exclusive repeated use of herbicides from the same herbicide group code. Alternate or tank mix with products from different herbicide group codes,
- integrate other control methods (chemical, cultural, biological) into weed control programmes.

For specific information on resistance management contact the registration holder of this product.

USE RESTRICTIONS

- In addition to the listed crops, the following crops may also be planted **directly** after a treated field has been harvested: Beetroot, Brassicaceae, Carrots, Castor Oil, Celery, Cowpeas, Cucurbits, Fruit Trees, Mint, Ocra, Potatoes, Safflower, Sugarcane and Tomatoes.
- All other crops need a **waiting period** of at least **12 months** between treatment and planting, **except** for Grain sorghum, which need **18 months**.
- Periods of cold weather after planting the crop may lead to phytotoxicity, e.g. in the case of early season plantings.
- Do not use in the winter rainfall area, on crops planted in winter.

DIRECTIONS FOR USE: Use only as indicated.

Compatibility:

- The compatibility of **TRIFLURALIN 480 EC** in a tank mixture with other products is influenced by the formulations of these products, as well as quality of the spray water. It is recommended that a physical compatibility test always be performed prior to application, as the formulation of other products can be altered, and the quality of water can vary from area to area.
- **TRIFLURALIN 480 EC** has been found compatible with **DISGRAN 750 WDG** and **WRESTLER 800 EC**.

Application Instructions:

- **TRIFLURALIN 480 EC** is easily decomposed by sunlight and must therefore, be incorporated into the soil immediately (within 10 minutes), after it has been sprayed evenly onto the surface, in about 150 to 500 litres water per hectare, at low pressure. The most advantageous method is to mount the spray boom in front of the tractor and pull a disc harrow with the same tractor.
- It is important to incorporate very thoroughly into the top 5 to 10 cm of soil. Set the discs to penetrate to a depth of 10 to 15 cm.
- In the case of groundnuts, incorporate less deeply (depth of 3 to 5 cm), cutting 6 to 10 cm deep.
- Shallow incorporation with implements set to cut less than 5 cm deep, may give erratic weed control.
- Thorough incorporation may be achieved with P.T.O. driven rotary tillers or an offset or tandem disc (alone or with spike-tooth harrow in tandem), disking the field twice, the second time at right angles with the first time.
- Clods must be broken up, because the weed seeds in untreated clods may germinate unaffected.
- **TRIFLURALIN 480 EC** has a long residual action and may be incorporated at any convenient time from 2 to 3 weeks before planting time, before the rush spring season starts, up to the day of planting.
- **TRIFLURALIN 480 EC** will not leach out of the soil, not even under conditions of high rainfall or irrigation.
- **TRIFLURALIN 480 EC** may stunt or even reduce the stand of cotton seedlings, affected by soil borne diseases. To control seedling diseases, apply a fungicide in the planting row and use treated seed.

APPLICATION RATES

| Crop / Soil Type | Dosage / ha | Remarks |
|---|--|---|
| <u>Wheat and Barley</u> Application for control of resistant Rye grass. <u>Pre-plant application:</u> 0 to 25 % clay | 1.0 ℓ to 2.0 ℓ | Apply as an overall application and incorporate by means of a suitable planter within 10 minutes as described below under “IMPORTANT NOTES & USE RESTRICTIONS” . Do not use in fields which was sown with wheat and barley but only in fields which are planted. Apply the higher rate where a high infestation of <i>Lolium</i> spp. is expected. Grass species, other than <i>Lolium</i> spp. might be controlled unsatisfactory. Use other herbicides from a different chemical group in such cases. |
| <u>Wheat and Barley</u> Application for control of resistant rye grass. <u>Pre-plant application:</u> TRIFLURALIN 480 EC PLUS Wrestler 800 EC OR | 1.5 ℓ PLUS 2.0 ℓ OR | All treatments to be applied pre-plant, pre-emergence. |
| TRIFLURALIN 480 EC PLUS Wrestler 800 EC PLUS Disgran 750 WDG | 1.5 ℓ PLUS 2.0 ℓ PLUS 30 g | |
| <u>Split pre- & post-plant application:</u> TRIFLURALIN 480 EC pre-plant followed post plant* by Wrestler 800 EC OR | 1.5 ℓ 2.0 ℓ OR | |
| TRIFLURALIN 480 EC pre-plant followed post plant* by Wrestler 800 EC PLUS Disgran 750 WDG | 1.5 ℓ 2.0 ℓ PLUS 30 g | Disgran 750 WDG can be added to the post-plant application for improved broadleaf weed control. |

* - Post-plant application (within 2 to 3 days after planting), but still pre-emergence of weeds and crop.

WHEAT AND BARLEY - IMPORTANT NOTES & USE RESTRICTIONS

- Consult the labels of **Wrestler 800 EC** and **Disgran 750 WDG** for **USE RESTRICTIONS, WARNINGS (including RESISTANCE WARNINGS), PRECAUTIONS** and **DIRECTIONS FOR USE**.
- **Weeds controlled:**
 - **Wrestler 800 EC** will control Ryegrass, including ALS/ACCase resistant ryegrass.
 - Wild oats (*Avena* spp.) and Rippgut brome (*Bromus diandrus*) may also be suppressed by application of **TRIFLURALIN 480 EC** in combination with **Wrestler 800 EC**.
 - Refer to the labels of **Wrestler 800 EC** and **Disgran 750 WDG** for a list of weed species controlled by these products.
- **TRIFLURALIN 480 EC** is selective in wheat and barley if used correctly as recommended. It is of utmost importance that the following user restrictions be considered to prevent damage to the crop:
 - **TRIFLURALIN 480 EC** can only be applied if planting afterwards is done with an Ausseeder (Ausplow), "Voorplanter" or a similar planter.
 - The planting speed should be 5 to 6 kilometres per hour. Ideally the planter speed must be such that the planter throws soil over the area in between the rows, but not onto the adjacent row as this can cause damage to crops.
 - **TRIFLURALIN 480 EC** cannot be used on soils which slope to such an extent that treated soil lands on adjacent rows when planting.
 - **TRIFLURALIN 480 EC** cannot be used in broadcast sown cereals.
 - **TRIFLURALIN 480 EC** will give poor results on very stony soils.
 - Where minimum tillage is practiced stubble should be burned before planting.
 - **TRIFLURALIN 480 EC** can only be used in a programme with other herbicides.
 - Any weeds that have emerged before planting should be sprayed with **Glyphosate**.
 - Take note of the waiting periods above before the follow-up crop is to be planted.

| Crop / Soil Type | Dosage / ha | Remarks |
|---|--------------------|---|
| Groundnuts (Natal common and other Spanish upright types) | | |
| 0 to 10 % clay | 0.75 ℓ | Apply before planting and incorporate into the soil within 10 minutes. The treated fields may be weeded mechanically and tilled lightly during the season, without affecting the efficiency of TRIFLURALIN 480 EC adversely. |
| 11 to 20 % clay | 1.0 ℓ | |
| Cotton, Dry Beans, Cowpeas, Carrots, Sunflowers, transplanted Cabbages & Tomatoes & Chillies | | |
| 0 to 15 % clay | 1.0 ℓ | Apply before planting and incorporate into the soil within 10 minutes. The treated fields may be weeded mechanically and tilled lightly during the season, without affecting the efficiency of TRIFLURALIN 480 EC adversely. |
| 16 to 35 % clay | 1.5 ℓ | |
| 36 to 55 % clay | 2.0 ℓ | |
| Stone Fruit, Pome Fruit, Vineyards, Guavas, Citrus, Macadamias & Pecans | | |
| 0 to 30 % clay | 8.0 ℓ | Overall application: Use accordingly less for band treatment. |
| Canola | 1.5 ℓ | Apply pre-plant pre-emergence and plant with recommended wheat planters. Can also be applied pre-plant pre emergence, incorporated and planted with ordinary planters or sown. |

| SOME WEED SPECIES NORMALLY CONTROLLED BY TRIFLURALIN 480 EC: | |
|---|----------------------------------|
| Grass species: | |
| <i>Brachiaria eruciformis</i> | Sweet signal grass |
| <i>Bromus unioloides</i> | Rescue grass |
| <i>Cenchrus incertus</i> | Mat sandbur |
| <i>Chloris virgata</i> | Feather-top Chloris |
| <i>Dactyloctenium aegyptium</i> | Crowfoot |
| <i>Digitaria sanguinalis</i> | Crabfinger-grass |
| <i>Digitaria ciliaris</i> | Finger grass |
| <i>Echinochloa crusgalli</i> | Barnyard grass |
| <i>Echinochloa colona</i> | Jungle rice |
| <i>Eleusine indica</i> | Goose grass |
| <i>Eragrostis cilianensis</i> | Stink lovegrass |
| <i>Eragrostis aspera</i> | Rough lovegrass |
| <i>Panicum schinzii</i> | Vlei Panicum |
| <i>Poa annua</i> | Annual bluegrass |
| <i>Setaria pallide-fusca</i> | Red bristle grass / Horse grass |
| <i>Setaria verticillata</i> | Bur bristle grass |
| <i>Sorghum halepense</i> | Johnson grass (from seed) |
| <i>Tragus racemosus</i> | Large (Stalked) carrotseed grass |
| <i>Urochloa panicoides</i> | Garden Urochloa |
| Broadleaf species: | |
| <i>Amaranthus deflexus</i> | Pigweed |
| <i>Amaranthus hybridus</i> | Cape pigweed |
| <i>Amaranthus spinosus</i> | Thorny pigweed |
| <i>Amaranthus thunbergii</i> | Red pigweed |
| <i>Chenopodium album</i> | White goosefoot |
| <i>Polygonum aviculare</i> | Prostrate knotweed |
| <i>Portulaca oleracea</i> | Purslane |
| <i>Stellaria media</i> | Chickweed |
| <i>Tribulus terrestris</i> | Common dubbeltjie |

The following products mentioned in this label may be replaced with equivalent products:

- **TRIFLURALIN 480 EC** (L 4555) = **RIFLE 480 EC** (L 8137),
- **DISGRAN 750 WDG** (L 7473) = **TRIASON 750 WDG** (L 7472) = **TRIASULFURON 75 WDG** (L pending) and
- **WRESTLER 800 EC** (L 8758) = **PROCARB 800 EC** (L 8746) = **PROSUL 800 EC** (L 9173).

TRIFLURALIN 480 EC, TRIASULFURON 75 WDG and/en **PROSUL 800 EC** are registered products of / is geregistreerde produkte van **Cropasure (Pty) Ltd.**

DISGRAN 750 WDG, WRESTLER 800 WDG and/en **RIFLE 480 EC** are registered products of / is geregistreerde produkte van **Villa Crop Protection (Pty) Ltd.**

TRIFLURALIN 480 EC, PROCARB 800 EC and/en **TRIASON 750 WDG** are registered products of / is geregistreerde produkte van **Universal Crop Protection (Pty) Ltd.**